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## CLAIMS

## What is claimed is:

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1. A method of treating a condition which is ameliorated by inhibiting or decreasing serine protease activity of matriptase or MTSP1 in a mammal in need of treatment which comprises administering to said mammal a therapeutically effective amount of a compound which inhibits serine protease activity of matriptase or MTSP1.

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- 2. A method according to claim 1 wherein said compound has an  $IC_{50}$  of 100 nM or less.
- 3. A method according to claim 1 wherein said compound is selected from the compounds depicted in Figures 1A, 1B and 1C.

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- 4. A method of treating a condition which is améliorated by inhibiting or decreasing serine protease activity of matriptase or MTSP1 in a mammal in need of treatment which comprises administering to said mammal a therapeutically effective amount of a compound which selectively inhibits serine protease activity of matriptase or MTSP1.
- 5. A method according to claim 4 wherein said compound 25 has an  $IC_{50}$  of 100 nM or less.

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- 6. Compound No. 6 of Figure 1A.
- 7. Compound No.  $\sqrt{4}$  of Figure 1A.

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- 9. A method according to claim 8 wherein said serine protease domain comprises SEQ. ID. NO. 2.
- 10. A method of screening for a compound having activity in inhibiting serine protease activity of matriptase or MTSP1 which comprises determining whether said compound inhibits serine protease activity of a peptide comprising a recombinant serine protease domain derived from matriptase or MTSP1.
- 11. A method according to claim 10 wherein said peptide comprises SEQ. ID. NO. 2 or an amino acid sequence having serine protease activity and at least about 80% sequence identity to SEO. ID. NO. 2.
- 12. A method of screening a compound for activity in inhibiting serine protease activity of matriptase or MTSP1 which comprises determining whether said compound inhibits serine protease activity of a peptide comprising a recombinant serine protease domain comprising SEQ. ID. NO. 2 or an amino acid sequence having serine protease activity and at least about 80% sequence identity to SEQ. ID. NO. 2.
- 13. A recombinant serine protease domain derived from 30 matriptase or MTSP1 which comprises SEQ. ID. NO. 2 or an amino acid sequence having serine protease activity and at least about 80% sequence identity to SEQ. ID. NO. 2.

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14. A recombinant serine protease domain which comprises SEQ. ID. NO. 2.

15. A recombinant serine protease domain which comprises SEQ. ID. NO. 2 or an amino acid sequence having serine protease activity and at least about 80% sequence identity to SEQ. ID. NO. 2.

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